ABSTRACT OF THE DISCLOSURE

This invention presents a design for a robotic unloading system that could be used to unload packages from containers. In the basic configuration, a robotic manipulator is coupled with a vision or sensor system and powered conveyor belt. The robot and vision system are used to identify packages and determine presence and orientation. A conveyor belt is positioned in close proximity to the package being removed. The robot and EOAT are used to move the package only a short distance to where the conveyor belt catches the product and carries it away. The greatly simplifies the system design since the robot does not need the precision to securely lift and carry the package. The robot only needs to move the package onto the conveyor that is actively and advantageously positioned for each package removal action. The robot and conveyor work together to simplify the unloading process. The robot is only used to move product onto the conveyor.

7